



Copeland Scroll Compressor Box Type Condensing Units

LUC Series

Products features:

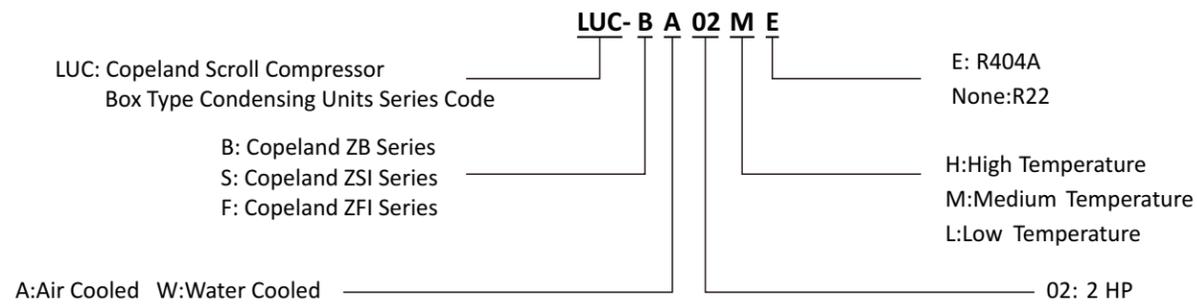
- With Copeland Scroll Compressor
- ZB Series, ZSI Series, ZFI Series
- Horse Power: From 2HP to 15HP
- Refrigerant: R22, R404A
- Application: Medium Temperature, Low Temperature
- Box Type: Normal Box with Side Blow and Top Blow

Copeland[®]

LUC Copeland Scroll Compressor Box Type Condensing Units



Model Description



Products Description

Installed with Emerson Copeland scroll compressor
High reliability, Low noise and High efficiency.

Highest energy efficiency levels

Provides unmatched energy savings
Typically offers upgrade payback in less than one year

Diagnostic protection

Reduces potential service costs
Helps avoid nuisance calls
Extends the life of the unit
Provides confidence in what your technician is fixing

Reduced sound levels

Includes built-in sound reduction for areas with noise ordinances
Creates a more comfortable outdoor environment for patrons

**Slim profile, lighter weight,
and wall mount capability for flexible mounting options**

Lowers installation costs
Avoids more costly solutions for location issues
Improves appearance of your enterprise site



Air Cooled Medium Temp (R22)

Copeland ZB Compressor Series

Model		LUC -BA02M	LUC -BA03M	LUC -BA04M	LUC -BA05M	LUC -BA06M	
Compressor model		ZB15KQ	ZB21KQ	ZB29KQ	ZB38KQ	ZB45KQ	
Applicable Temperature(°C)		+10~-15°C					
Refrigerant		R22					
Power supply		220/1PH/50Hz, 380V/3PH/50Hz			380V/3PH/50Hz		
Condenser	Quantity of Fan	1	1	2	2	2	
	Air volume (m ³ /h)	1*3200	1*3200	2*3200	2*3200	2*3200	
	Power of Fan(W)	1*60	1*60	2*60	2*60	2*60	
Compressor Capacity	Evaporating Tempe +5°C	Cooling capacity	5190	7110	11000	12510	15200
		Power (W)	1820	2590	3300	4260	5080
	Evaporating Tempe -5°C	Cooling capacity	4050	5840	7300	9270	11600
		Power (W)	1860	2530	2980	3780	4680
	Evaporating Tempe -12°C	Cooling capacity	2930	4050	5450	6880	8790
		Power (W)	1890	2530	2790	3400	4230
Pipe	Liquid Dia (inch)	3/8"	3/8"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	5/8"	5/8"	3/4"	3/4"	3/4"	
Overall Dimension	Length (mm) (L)	970	970	970	970	970	
	Width (mm) (B)	410	410	410	410	410	
	Height (mm) (H)	835	835	1330	1330	1330	
Installation Dimension	Length (mm) (D)	625	625	625	625	625	
	Width (mm) (E)	380	380	380	380	380	

Model		LUC-BA08M	LUC-BA10M	LUC-BA12M	LUC-BA13M	LUC-BA15M	
Compressor model		ZB58KQ	ZB76KQ	ZB88KQ	ZB95KQ	ZB114KQ	
Applicable Temperature(°C)		+10~-15°C					
Refrigerant		R22					
Power supply		380V/3PH/50Hz					
Condenser	Quantity of Fan	1	2	2	2	2	
	Air volume (m ³ /h)	1*8720	2*6570	2*6570	2*6570	2*8720	
	Power of Fan(W)	1*600	2*450	2*450	2*450	2*600	
Compressor Capacity	Evaporating Tempe +5°C	Cooling capacity (W)	20100	29200	32000	34200	39400
		Power (W)	7690	8020	9500	11050	13700
	Evaporating Tempe -5°C	Cooling capacity (W)	15300	21500	23000	24500	28200
		Power (W)	7130	7320	9200	9970	12250
	Evaporating Tempe -12°C	Cooling capacity (W)	12150	16550	17000	18500	21200
		Power (W)	6780	7100	7300	9320	11450
Pipe	Liquid Dia (inch)	1/2"	5/8"	5/8"	5/8"	5/8"	
	Suction inlet(inch)	1-1/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"	
Overall Dimension	Length (mm) (L)	770	1330	1330	1480	1730	
	Width (mm) (B)	920	950	950	950	1050	
	Height (mm) (H)	900	890	990	990	1000	
Installation Dimension	Length (mm) (D)	610	900	900	1050	1300	
	Width (mm) (E)	890	920	920	920	1020	

Cooling capacity in the form is calculated when the ambient temperature is 32°C

Air Cooled Medium Temp (R404)

Copeland ZB Compressor Series

Model		LUC-BA02ME	LUC-BA03ME	LUC-BA04ME	LUC-BA05ME	LUC-BA06ME	
Compressor model		ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	
Applicable Temperature(°C)		+10~-15°C					
Refrigerant		R404A					
Power supply		220/1PH/50Hz, 380V/3PH/50Hz			380V/3PH/50Hz		
Condenser	Quantity of Fan	1	1	2	2	2	
	Air volume (m ³ /h)	1*3200	1*3200	2*3200	2*3200	2*3200	
	Power of Fan(W)	1*60	1*60	2*60	2*60	2*60	
Compressor Capacity	Evaporating Tempe +5°C	Cooling capacity (W)	5270	7910	10450	12250	13400
		Power (W)	1920	3020	4100	5440	6130
	Evaporating Tempe -5°C	Cooling capacity (W)	3750	5100	7000	8850	10100
		Power (W)	1990	3100	3900	4700	5820
	Evaporating Tempe -12°C	Cooling capacity (W)	2920	4100	5600	7200	8060
		Power (W)	1910	2980	3700	4480	5370
Pipe	Liquid Dia (inch)	3/8"	3/8"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	5/8"	5/8"	3/4"	3/4"	3/4"	
Overall Dimension	Length (mm) (L)	970	970	970	970	970	
	Width (mm) (B)	410	410	410	410	410	
	Height (mm) (H)	835	835	1330	1330	1330	
Installation Dimension	Length (mm) (D)	625	625	625	625	625	
	Width (mm) (E)	380	380	380	380	380	

Model		LUC-BA08ME	LUC-BA10ME	LUC-BA13ME	LUC-BA15ME	
Compressor model		ZB58KQE	ZB76KQE	ZB95KQE	ZB114KQE	
Applicable Temperature(°C)		+10~-15°C				
Refrigerant		R404A				
Power supply		380V/3PH/50Hz				
Condenser	Quantity of Fan	1	2	2	2	
	Air volume (m ³ /h)	1*8720	2*6570	2*6570	1*8720	
	Power of Fan(W)	1*600	2*450	2*450	2*600	
Compressor Capacity	Evaporating Tempe +5°C	Cooling capacity (W)	19950	28300	32500	37300
		Power (W)	7670	9550	12850	15850
	Evaporating Tempe -5°C	Cooling capacity (W)	14650	20700	24000	27500
		Power (W)	7060	8840	11750	14450
	Evaporating Tempe -12°C	Cooling capacity (W)	11400	16150	18800	21400
		Power (W)	6900	8410	11100	13650
Pipe	Liquid Dia (inch)	1/2"	5/8"	5/8"	5/8"	
	Suction inlet(inch)	1-1/8"	1-3/8"	1-3/8"	1-3/8"	
Overall Dimension	Length (mm) (L)	770	1330	1480	1730	
	Width (mm) (B)	920	950	950	1050	
	Height (mm) (H)	900	890	990	1000	
Installation Dimension	Length (mm) (D)	610	900	1050	1300	
	Width (mm) (E)	890	920	920	1020	

Cooling capacity in the form is calculated when the ambient temperature is 32°C

Air Cooled Medium Temp (R22)

Copeland ZSI Compressor Series

Model		LUC-SA02M	LUC-SA03M	LUC-SA04M	LUC-SA05M	LUC-SA06M	LUC-SA07M	
Compressor model		ZSI06KQ	ZSI09KQ	ZSI14KQ	ZSI15KQ	ZSI18KQ	ZSI21KQ	
Applicable Temperature(°C)		-5°C~30°C						
Refrigerant		R22						
Power supply		220V/1PH/50Hz, 380V/3PH/50Hz			380V/3PH/50Hz			
Condenser	Quantity of Fan	1	1	2	2	2	1	
	Air volume (m³/h)	1*3200	1*3200	2*3200	2*3200	2*3200	1*8720	
	Power of Fan(W)	1*60	1*60	2*60	2*60	2*60	1*60	
Compressor Capacity	Evaporating Tempe -5°C	Cooling capacity (W)	3780	5060	8150	9170	11110	12420
		Power (W)	1830	2280	3400	4010	4780	5410
	Evaporating Tempe -10°C	Cooling capacity (W)	3110	4150	6720	7600	9240	10350
		Power (W)	1830	2260	3440	3890	4710	5280
	Evaporating Tempe -20°C	Cooling capacity (W)	2070	2750	4540	5150	6240	6980
		Power (W)	1770	2200	3250	3640	7400	8270
	Evaporating Tempe -30°C	Cooling capacity (W)	1360	1720	2830	3410	4160	4710
		Power (W)	1620	2130	3090	3420	4370	4800
Pipe	Liquid Dia (inch)	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	5/8"	5/8"	3/4"	3/4"	3/4"	1-1/8"	
Overall Dimension	Length (mm) (L)	970	970	970	970	970	770	
	Width (mm) (B)	410	410	410	410	410	920	
	Height (mm) (H)	835	835	1330	1330	1330	900	
Installation Dimension	Length (mm) (D)	625	625	625	625	625	610	
	Width (mm) (E)	380	380	380	380	380	890	

Air Cooled Medium Temp (R404A)

Copeland ZSI Compressor Series

Model		LUC-SA02ME	LUC-SA03ME	LUC-SA04ME	LUC-SA05ME	LUC-SA06ME	LUC-SA07ME	
Compressor model		ZSI06KQE	ZSI09KQE	ZSI14KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE	
Applicable Temperature(°C)		-5°C~30°C						
Refrigerant		R404A						
Power supply		220V/1PH/50Hz, 380V/3PH/50Hz			380V/3PH/50Hz			
Condenser	Quantity of Fan	1	1	2	2	2	1	
	Air volume (m³/h)	1*3200	1*3200	2*3200	2*3200	2*3200	1*8720	
	Power of Fan(W)	1*60	1*60	2*60	2*60	2*60	1*60	
Compressor Capacity	Evaporating Tempe -5°C	Cooling capacity (W)	3910	5230	8560	9500	11600	12940
		Power (W)	2020	2530	3850	4340	5380	5920
	Evaporating Tempe -10°C	Cooling capacity (W)	3220	4370	7120	7920	9700	10840
		Power (W)	2010	2490	3770	4240	5230	5730
	Evaporating Tempe -20°C	Cooling capacity (W)	2140	2980	4780	5450	6650	7410
		Power (W)	1950	2450	3540	3910	4830	5340
	Evaporating Tempe -30°C	Cooling capacity (W)	1380	1900	3080	3480	4390	5080
		Power (W)	1800	2310	3270	3620	4540	5000
Pipe	Liquid Dia (inch)	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	5/8"	5/8"	3/4"	3/4"	3/4"	1-1/8"	
Overall Dimension	Length (mm) (L)	970	970	970	970	970	770	
	Width (mm) (B)	410	410	410	410	410	920	
	Height (mm) (H)	835	835	1330	1330	1330	900	
Installation Dimension	Length (mm) (D)	625	625	625	625	625	610	
	Width (mm) (E)	380	380	380	380	380	890	

Cooling capacity in the form is calculated when the ambient temperature is 32°C

Air Cooled Low Temp (R22)

Copeland ZFI Compressor Series

Model		LUC-FA04L	LUC-FA06L	LUC-FA07L	LUC-FA10L	LUC-FA13L	LUC-FA15L	
Compressor model		ZFI20KQ	ZFI26KQ	ZFI36KQ	ZFI50KQ	ZFI59KQ	ZFI68KQ	
Applicable Temperature(°C)		0°C~40°C						
Refrigerant		R22						
Power supply		380V/3PH/50Hz						
Condenser	Quantity of Fan	2	2	1	2	2	2	
	Air volume (m³/h)	2*3200	2*3200	1*8720	2*5000	2*6570	2*6570	
	Power of Fan(W)	2*60	2*60	1*600	2*290	2*380	2*380	
Compressor Capacity	Evaporating Tempe 0°C	Cooling capacity (W)	10000	14440	17530	23640	28280	33210
		Power (W)	3560	5730	7012	8980	10800	11050
	Evaporating Tempe -10°C	Cooling capacity (W)	7530	11080	14440	19500	23460	26560
		Power (W)	3570	5220	6910	8870	10560	10830
	Evaporating Tempe -20°C	Cooling capacity (W)	5390	7950	9840	13430	16100	19040
		Power (W)	3410	4850	6310	8280	10100	11990
	Evaporating Tempe -40°C	Cooling capacity (W)	2300	3400	4380	6030	7170	8540
		Power (W)	2860	4050	5170	6780	8280	9800
Pipe	Liquid Dia (inch)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	3/4"	3/4"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	
Overall Dimension	Length (mm) (L)	970	970	770	1330	1330	1730	
	Width (mm) (B)	410	410	920	850	950	1050	
	Height (mm) (H)	835	835	900	890	990	1000	
Installation Dimension	Length (mm) (D)	625	625	610	900	900	1300	
	Width (mm) (E)	380	380	890	820	920	1020	

Air Cooled Low Temp (R404A)

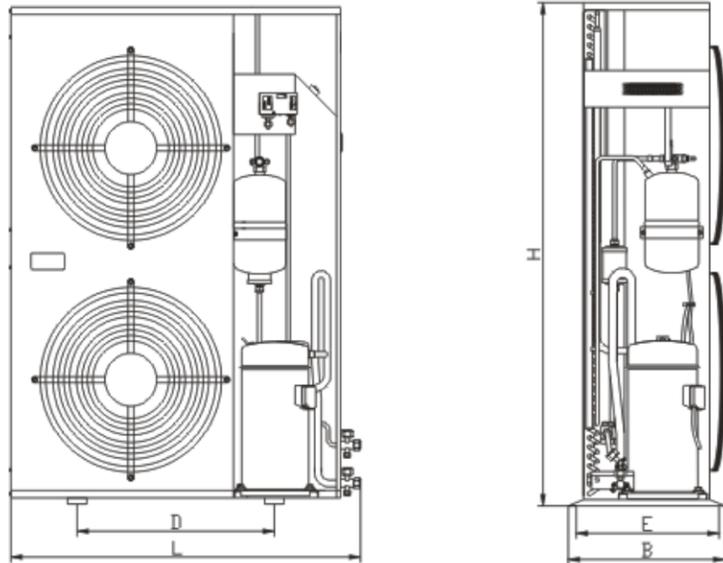
Copeland ZFI Compressor Series

Model		LUC-FA04LE	LUC-FA06LE	LUC-FA07LE	LUC-FA10LE	LUC-FA13LE	LUC-FA15LE	
Compressor model		ZFI20KQE	ZFI26KQE	ZFI36KQE	ZFI50KQE	ZFI59KQE	ZFI68KQE	
Applicable Temperature(°C)		0°C~40°C						
Refrigerant		R404A						
Power supply		380V/3PH/50Hz						
Condenser	Quantity of Fan	2	2	1	2	2	2	
	Air volume (m³/h)	2*3200	2*3200	1*8720	2*5000	2*6570	2*6570	
	Power of Fan(W)	2*60	2*60	1*600	2*290	2*380	2*380	
Compressor Capacity	Evaporating Tempe 0°C	Cooling capacity (W)	12600	17750	21920	29560	36600	41510
		Power (W)	3940	6310	7740	10470	12980	15080
	Evaporating Tempe -10°C	Cooling capacity (W)	9130	12920	15730	21710	26400	32100
		Power (W)	3810	5980	7410	9930	12100	13720
	Evaporating Tempe -20°C	Cooling capacity (W)	6460	9290	11630	15870	19320	21890
		Power (W)	3650	5600	6860	9070	11060	12860
	Evaporating Tempe -40°C	Cooling capacity (W)	2810	4620	5670	9610	9240	10480
		Power (W)	3420	4700	5230	9350	8970	10420
Pipe	Liquid Dia (inch)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
	Suction inlet(inch)	3/4"	3/4"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	
Overall Dimension	Length (mm) (L)	970	970	770	1330	1330	1730	
	Width (mm) (B)	410	410	920	850	950	1050	
	Height (mm) (H)	835	835	900	890	990	1000	
Installation Dimension	Length (mm) (D)	625	625	610	900	900	1300	
	Width (mm) (E)	380	380	890	820	920	1020	

Cooling capacity in the form is calculated when the ambient temperature is 32°C

Drawing

LUC-BA02M(E) to LUC-BA06M(E)
LUC-SA02M(E) to LUC-SA06M(E)
LUC-FA04L(E) to LUC-FA06L(E)



LUC-BA08M(E) to LUC-BA15M(E)
LUC-SA07M(E)
LUC-FA07L(E) to LUC-FA15L(E)

